

Fig. 1

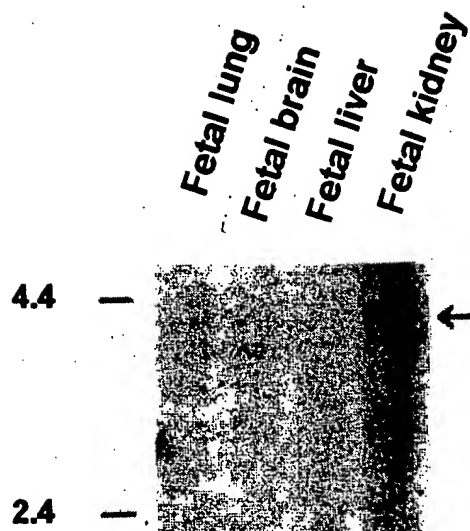


FIG. 2A

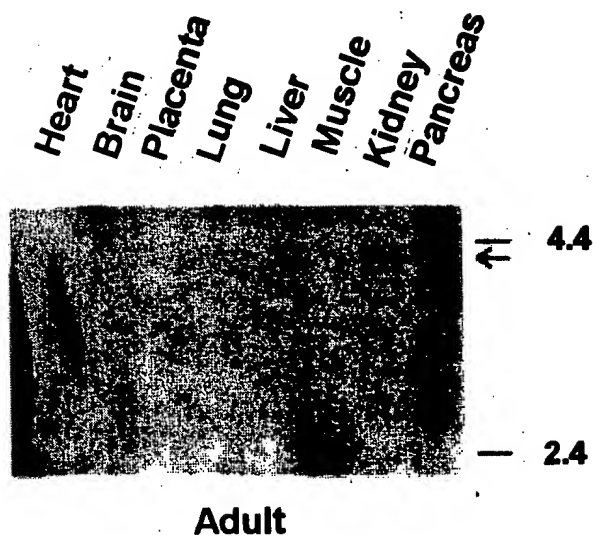
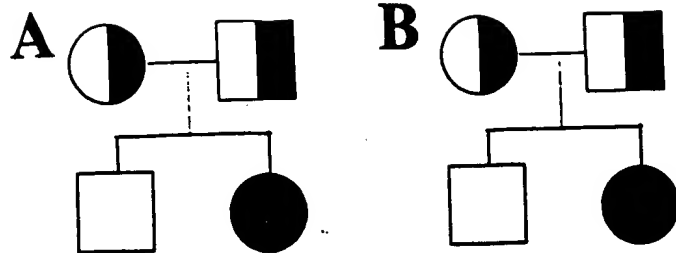
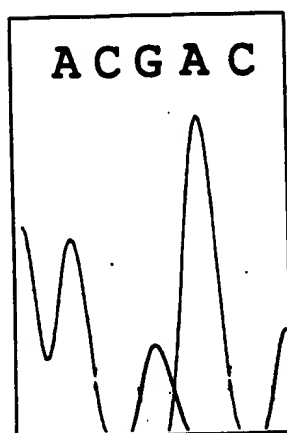


FIG. 2B

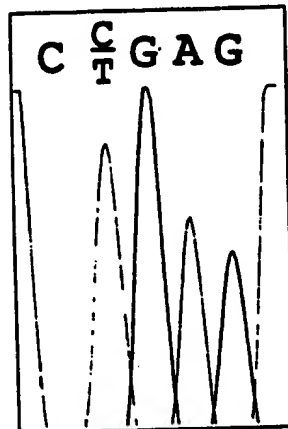
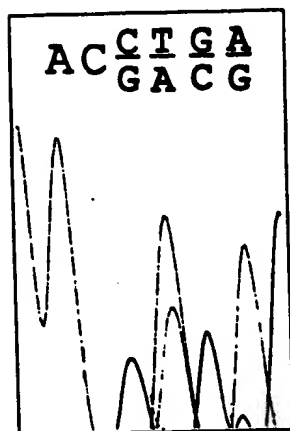
Fig. 3



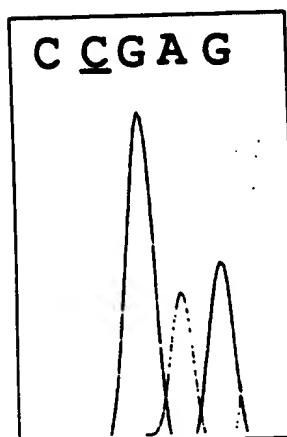
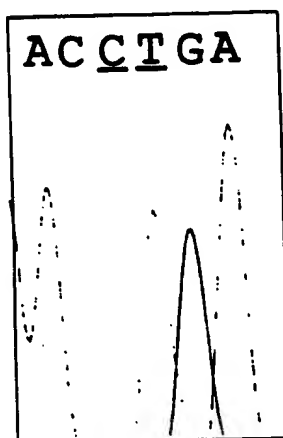
Patient



Carrier parent



Healthy sibling



1 MALGTTLRAS LLLGLLTEG LAQLAIPASV PRGFWALPEN LTVVEGASVE
 51 LRCGVSTPGS AVQWAKDGLL LGPDPRIPGF PRYRLEGDPA RGEFHLHIEA
 101 CDLSDDAEYE CQVGRSEMGP ELVSPRVILS ILVPPKLLLL TPEAGTMVTW
 151 VAGQEYVUNC VSGDAKPAPD ITILLSGQTI SDISANVNEG SQOKLFTVEA
 201 TARVTPRSSD NRQLLVCEAS SPALEAPIKA SFTVNVLFPP GPPVIEWPGL
 251 DEGHVRAGQS LELPCVARGG NPLATLOWLK NGQPVSTANG TEHTQAVARS
 301 VLVMTVRPED HGAQLSCEAH NSVSAGTQEH GITLQVTFFP SAIILGSAS
 351 QTEKNVYLS CVSKSSRPV LLRWLWGRQ LLPMEETVMD GLHGGHISMS
 401 NLTLFLARRED NGLTLTCEAF SEAFKETFK KSLILNVKYP AOKLWIEGPP
 451 EGQKLRAQTR VRLVCLAIGG NPEPSLMWYK DSRTVTESRL POESRRVHLG
 501 SVEKSGSTFS RELVLVTGPS DNOAKFTCKA GOLSASTQLA VQFPPTNVTI
 551 LANASALRBG DALNLTCVSV SSNPPVNLSW DKEGERLEGV AAPRRAPFK
 601 GSAAARSVLL QVSSRDHGQR VTCRAHSAEL RETVSSFYRL NVLYRPEFLG
 651 EQVLVVTAVE QGEALLPVSU SANPAPEAFN HTFRGYRLSP AGGPRHRILS
 701 SGALHLWNVT RADDGLYQLH CONSEGTAEA RLRLDVHYAP TIRALQDPTE
 751 VNVGGSVDIV CTVDANPILP GMFNWERLGE DEEDQSLDDM EKISRGPTGR
 801 LRIHHAKLAQ AGAYQCIVON GVAPPARRLL RLVVRFAPOV EHPTPLTKVA
 851 AAGDSTSSAT LHCRARGVPN IVFTWTKNGV PLDLQDPRT EHTYHOGGVH
 901 SSLTIANVS AAQDYALFTC TATNALGSDQ TNIQLVSISR PDPPSGLKVV
 951 SLTPHSVGLE WKPGFDGGLP QRF CIRYEAL GTPGFHYVDV VPPQATTFTL
 1001 TGLQPSTRYR VWLLASNALG DSGLDKGTQ LPITTPGLHQ PSGEPEDQLP
 1051 TEPPSGPSGL PLLPVLFAIG GLLLSNASC VGGVLWQRRR RLRAEGISEK
 1101 TEAGSEEDRV RNEYEESQWT GERDTQSSTV STTEAEPYYR SLRDFSPQLP
 1151 PTQEEVSYSR GFTGEDEDMF FPGHLYDEVE RTYPPSGANG PLYDEVQMGF
 1201 WDLHWPEPTY QDPRGIYDQV AGDLDTLEPD SLPFELRGHL V

FIG. 4A

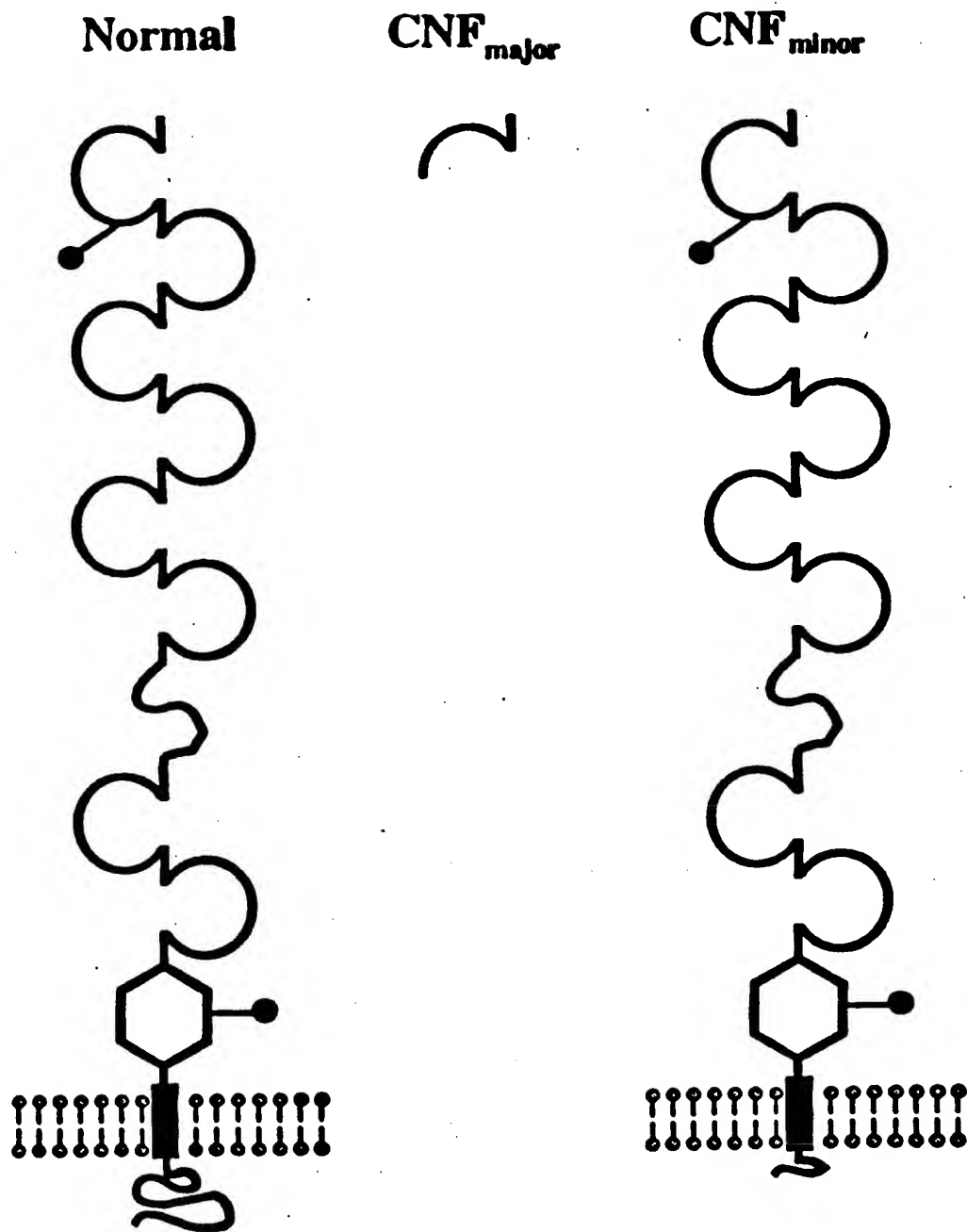


FIG. 4B

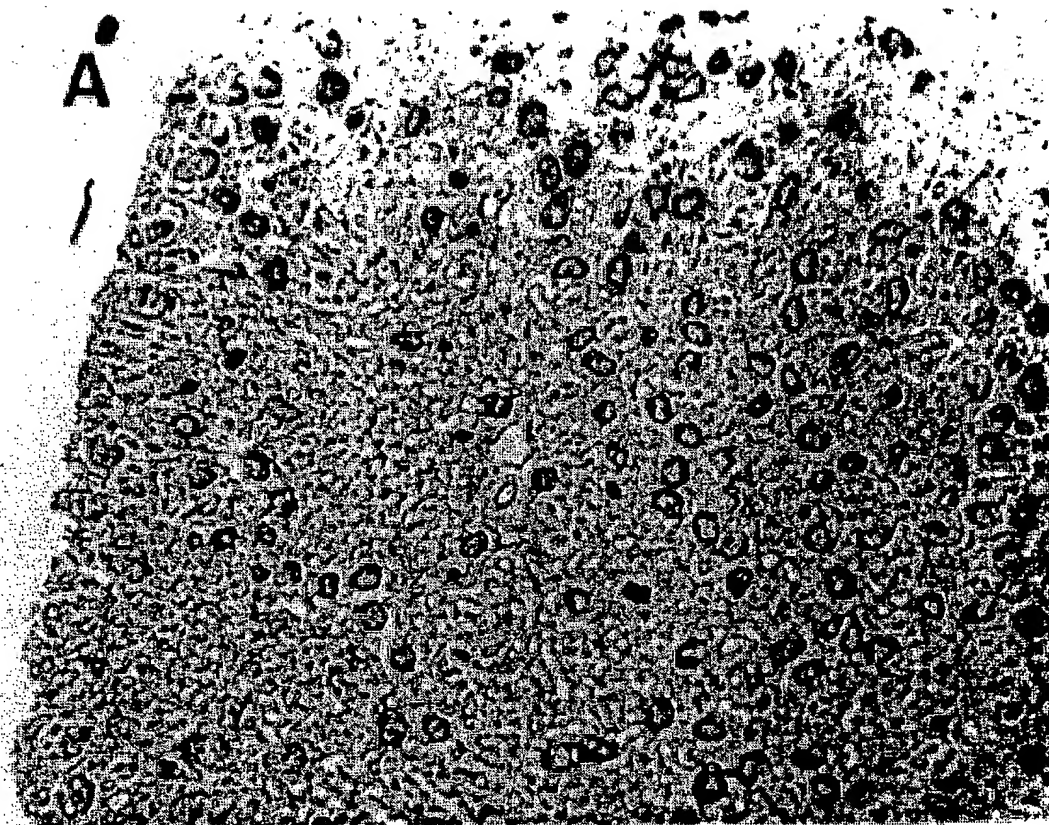


FIG. 5A

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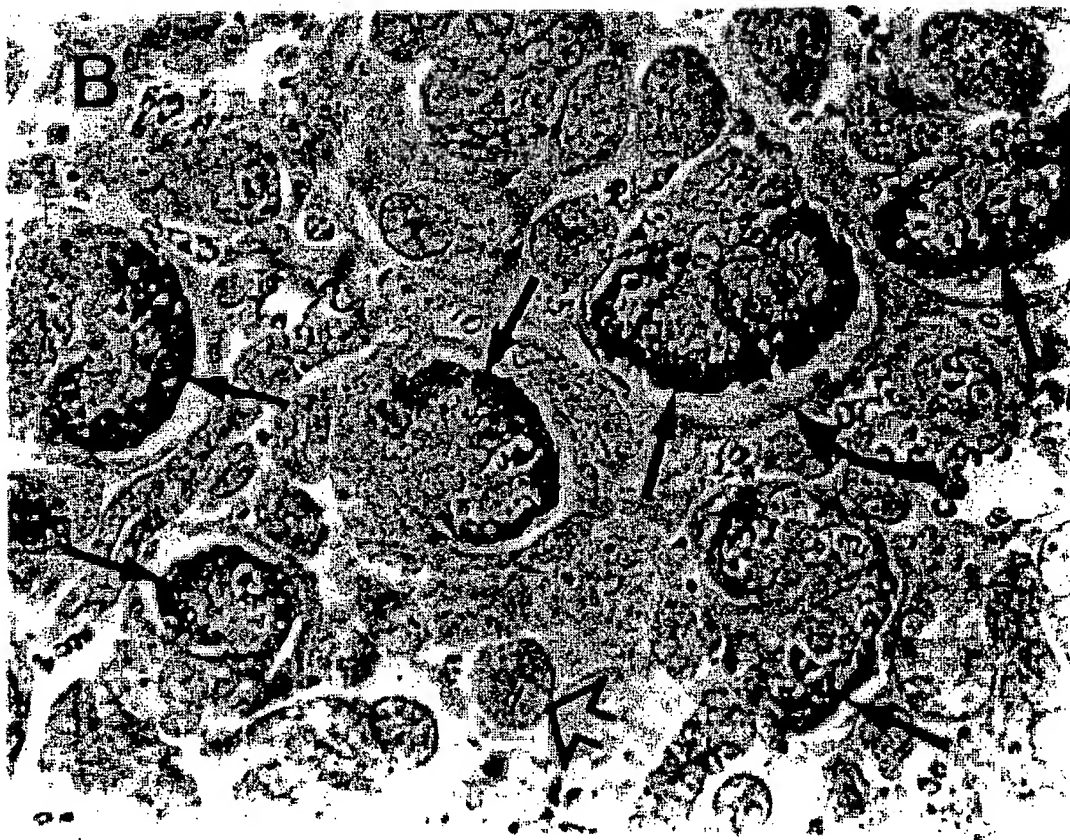


FIG. 5B